RF Exposure

Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2017-6-15
Mode of Operation:	Tx mode

Test Method:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. This evaluation used FCC 47CFR 2.1091 to perform.

Test Results:

The EUT complied with the requirement(s) of this section. EUT meets the requirements of these sections as proven through MPE calculation The MPE calculation for EUT @ 20cm Based on the highest P =0.47 mW

Pd = PG/ 4pi*R² = $(0.47 \times 0.84)/12.566* (20)^{2}$ = $(0.3948)/12.566\times 400= 0.3948 /5026.4$ = 0.0000785mW/cm²

where:

*Pd = power density in mW/cm2

* G = Antenna numeric gain (0.84); Log G = g/10 (g = -0.76dBi).

* P = Conducted RF power to antenna (0.47 mW).

* R = Minimum allowable distance.(20 cm)

*The power density $Pd = 0.0000785 \text{ mW/cm}^2$ is less than 1 mW/cm² (listed MPE limit)

*The SAR evaluation is not needed (this is a desk top device, R > 20 cm)

* The EUT(antenna) must be 0.2 meters away from the General Population.